

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P392808

Luminaire Tested: **12EN-LD2-23-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-36)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-23-UNV-L82765-W2A-1-U (5700K)
Description: 1X2 ENCOUNTER, 2300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2212.4 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.39
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

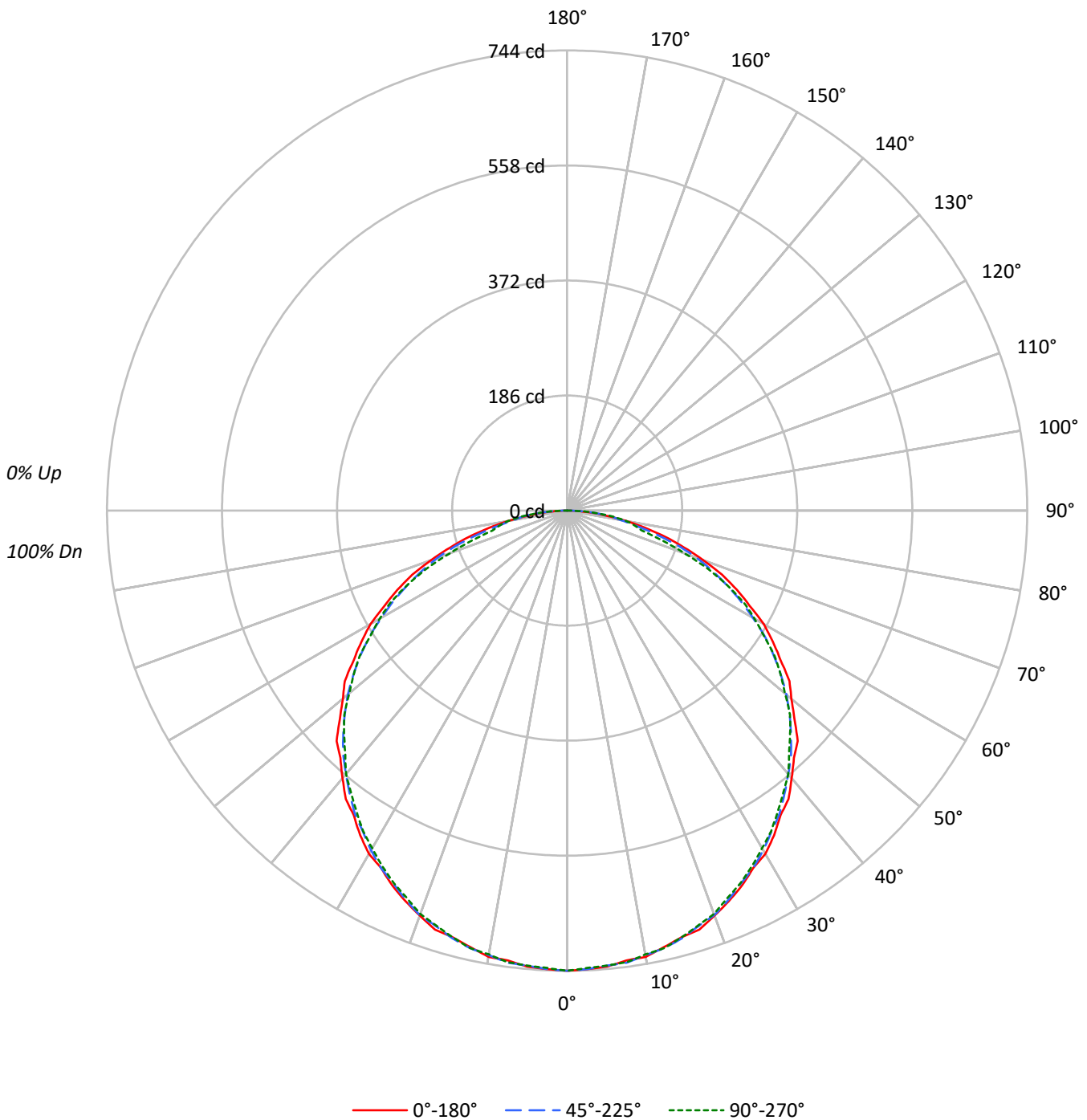
Input Watts (W): 19.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4005	4005	4005
5°	3999	3989	3989
10°	4003	3987	3982
15°	3979	3990	3979
20°	3991	3986	3974
25°	3972	3949	3944
30°	3983	3941	3917
35°	3951	3932	3901
40°	3968	3907	3907
45°	4013	3895	3881
50°	3962	3873	3849
55°	3952	3826	3843
60°	3953	3735	3766
65°	3854	3621	3633
70°	3685	3503	3169
75°	3427	3107	2606
80°	2988	2687	3016
85°	2384	2859	2915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.2
10°-20°	202.0	9.1
20°-30°	307.3	13.9
30°-40°	374.4	16.9
40°-50°	396.7	17.9
50°-60°	367.4	16.6
60°-70°	285.7	12.9
70°-80°	159.3	7.2
80°-90°	49.3	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	579.6	26.2
0°-40°	954.1	43.1
0°-60°	1718.1	77.7
0°-90°	2212.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2212.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	740	737	738	740	738	70
15°	714	717	716	716	714	202
25°	669	669	665	663	664	308
35°	601	601	598	596	594	378
45°	527	518	512	508	510	403
55°	421	417	408	405	410	378
65°	303	296	284	287	285	299
75°	165	160	149	134	125	173
85°	39	40	46	47	47	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	744.1	744.1	744.1	744.1	744.1
2.5°	742.1	742.1	742.1	742.1	740.2
5°	740.2	737.3	738.3	740.2	738.3
7.5°	733.5	736.4	737.3	737.3	736.4
10°	732.5	729.6	729.6	729.6	728.6
12.5°	722.9	723.8	724.8	724.8	724.8
15°	714.2	717.1	716.1	716.1	714.2
17.5°	710.3	705.5	704.6	704.6	703.6
20°	696.8	694.9	695.9	693.9	693.9
22.5°	683.3	682.4	681.4	680.5	677.6
25°	668.9	668.9	665.0	663.1	664.1
27.5°	651.5	653.5	651.5	649.6	647.7
30°	640.9	636.1	634.2	632.3	630.3
32.5°	622.6	620.7	614.9	612.0	614.0
35°	601.4	601.4	598.5	595.6	593.7
37.5°	587.9	582.1	577.3	574.4	574.4
40°	564.8	564.8	556.1	552.3	556.1
42.5°	542.6	542.6	535.9	534.0	531.1
45°	527.2	518.5	511.8	507.9	509.9
47.5°	498.3	496.4	487.7	484.8	488.7
50°	473.2	472.3	462.6	460.7	459.7
52.5°	453.0	444.3	435.6	432.8	434.7
55°	421.2	417.3	407.7	404.8	409.6
57.5°	394.2	390.3	378.8	376.9	376.9
60°	367.2	358.5	347.0	345.0	349.9
62.5°	332.5	328.7	316.1	317.1	321.9
65°	302.6	295.9	284.3	287.2	285.3
67.5°	270.8	263.1	253.5	249.6	246.7
70°	234.2	229.4	222.6	209.1	201.4
72.5°	197.6	193.7	187.0	167.7	161.9
75°	164.8	160.0	149.4	134.0	125.3
77.5°	129.2	129.2	114.7	107.9	111.8
80°	96.4	97.3	86.7	94.5	97.3
82.5°	65.5	64.6	71.3	74.2	74.2
85°	38.6	39.5	46.3	47.2	47.2
87.5°	15.4	18.3	21.2	22.2	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)